

WHAT IS CLAIMED IS:

- 51
41
- 112
- 10
- 15
- 20
- 25
- 30
1. A multilayer release liner, comprising:
a backing,
a support layer covering the backing;
a silicone-containing layer covering the support layer, the silicone layer
having a release surface; and
wherein the silicone distribution at successive 1 micrometer depths from
the release layer surface is overall substantially nonlinear to a total silicone
content of at least 50%.
 2. The release liner of Claim 1, where more than 50% of the silicone is within
2 micrometers from the release surface.
 3. The release liner of Claim 2, where more than 70% of the silicone is within
2 micrometers from the release surface.
 4. The release liner of Claim 1, wherein the silicone distribution is nonlinear
to a total silicone content of at least 70%.
 5. The release liner of Claim 1, wherein the silicone distribution is nonlinear
to a total silicone content of at least 90%.
 6. A multilayer release liner, comprising:
a backing;
a support layer on the backing;
a release layer on the support layer;
[wherein the support layer and release layer are deposited substantially
simultaneously.] *process limitation*
 7. The multilayer release liner of Claim 6, wherein [the support layer and
release layer are deposited by a dual die.] *process limitation*
 8. The multilayer release liner of Claim 6, wherein the support layer and
release layer are [deposited by curtain coating.] *process limitation*
 9. The multilayer release liner of Claim 4, wherein the solids of the release
layer are formed at least in part of silicone.
 10. The multilayer release liner of Claim 4, wherein the release layer is devoid
of silicone.

11. The multilayer release liner of Claim 9, wherein the solids of the silicone-containing layer are substantially all silicone solids.

12. *Sub A2* *112 - improper*
A pressure-sensitive adhesive label construction incorporating the multilayer release liner of Claim 6.

13. The pressure sensitive adhesive label construction of Claim 12, wherein the 90° Peel Release Force measured on a TLMI Lab Master instrument at a rate of 7.62 m/min is less than about 40 cN/25 mm. *process limitation*

14. The pressure sensitive adhesive label construction of Claim 13, wherein the 90° Peel Release Force measured on a TLMI Lab Master instrument at a rate of 7.62 m/min is less than about 20 cN/25 mm. *process limitation*

15. A method of making a multilayer release liner, comprising:
depositing a support layer on a backing; and
substantially simultaneously depositing a release layer on the support layer.

16. The method of Claim 15, wherein the layers are deposited by a dual die apparatus.

17. The method of Claim 15, wherein the layers are deposited by curtain coating.

18. The method of Claim 15, wherein the release layer comprises silicone.

19. The method of Claim 15, wherein the release layer is devoid of silicone.

20. A method of increasing the coating gap for a die-coated silicone-containing layer, comprising:

determining the maximum coating gap where a substantially defect free release layer is formed on a coated paper;

increasing the coating gap; and

applying a vacuum upstream and adjacent to a coating bead formed by the die.

00918652-032200